



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CH188A
Use of the preparation Inkjet printing.
Version # 01
Revision date 03-13-2009
CAS # Mixture
Synonym(s) ColorSpan 0900768-004
Company identification Hewlett-Packard Company
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Date prepared Mar 13, 2009
MSDS number 361170

2. Hazards Identification

Acute health effects

Skin contact Contact with skin may result in irritation. Avoid contact with the skin.
Eye contact Contact with eyes may result in irritation. Avoid contact with eyes.
Inhalation May be harmful by inhalation.
Ingestion May be harmful if swallowed.

Diethylene glycol

Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system.

Potential health effects

Carcinogenicity

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

3. Composition / Information on Ingredients

| Component/substance | CAS number | % by weight |
|--------------------------|-------------|-------------|
| Diethylene glycol | 111-46-6 | 5-10 |
| polyethylene glycol (3%) | 25322-68-3 | 5-10 |
| Glycerol Ethoxylate | 31694-55-0 | 1-5 |
| Carbon black | 1333-86-4 | 0-5 |
| Isothiazolone DF35 | 26172-55-4 | 0-1 |
| Styrene/Acrylic Polymer | Proprietary | 0-1 |
| Triethanolamine | 102-71-6 | 0-1 |
| Wetting Agent PG | Proprietary | 0-1 |

Composition comments Carbon black is present only in a bound form in this preparation.



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4. First Aid Measures

First aid procedures

Eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops or persists.

Skin contact

In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water.

Wash clothing separately before reuse.

Inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Get medical attention, if needed.

Ingestion

Rinse mouth out with water. Give several glasses of water. Do not induce vomiting. If symptoms persist, get medical attention.

5. Fire Fighting Measures

Flash point and method

Not flammable

Flammable properties

The product is not flammable.

Extinguishing media

Suitable extinguishing media

Use any media suitable for the surrounding fires.

Unusual fire and explosion hazard

The product is not flammable.

Protection of firefighters

Protective equipment and precautions for firefighters

Wear suitable protective equipment.

6. Accidental Release Measures

Personal precautions

Avoid contact with skin. Do not touch or walk through spilled material. Use personal protective equipment to minimize exposure to skin and eye.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Clean up in accordance with all applicable regulations. Clean-up methods - small spillage; Flush area with flooding quantities of water.

7. Handling and Storage

Handling

Avoid contact with skin, eyes and clothing. Use only with adequate ventilation.

Storage

Keep out of the reach of children. Keep tightly closed in a dry, cool and well-ventilated place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components

Type

Value

Triethanolamine (102-71-6)

TWA

5 mg/m³

Personal protective equipment

General

Eye wash fountain and emergency showers are recommended.

Eye / face protection

Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

Skin protection

Use of butyl rubber or nitrile gloves is recommended. Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.

Respiratory protection

Under normal conditions, respirator is not normally required. Provide adequate ventilation.



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General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.
When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.
Launder contaminated clothing before reuse.

9. Physical & Chemical Properties

| | |
|--|---------------------|
| Color | Black |
| Odor | Not significant. |
| Odor threshold | Not available. |
| Physical state | Liquid. |
| Form | Aqueous solution. |
| pH | 7 - 9 |
| Melting point | < 32 °F (< 0 °C) |
| Freezing point | Not available. |
| Boiling point | > 212 °F (> 100 °C) |
| Flash point | Not flammable |
| Evaporation rate | Not available. |
| Flammability | Not available. |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Specific gravity | Not available. |
| Relative density | Not available. |
| Solubility (water) | Soluble |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| VOC | < 150 g/L |

10. Chemical Stability & Reactivity Information

| | |
|------------------------------------|---|
| Chemical stability | Stable under normal storage conditions. |
| Conditions to avoid | Avoid high temperatures. |
| Hazardous decomposition products | Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |

11. Toxicological Information

| | |
|-----------------|---|
| Carcinogenicity | Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. |
|-----------------|---|

IARC Monographs on Occupational Exposures to Chemical Agents: Evidence of carcinogenicity in humans

| | |
|----------------------------|------------------|
| Carbon black (1333-86-4) | Inadequate data. |
| Triethanolamine (102-71-6) | Inadequate data. |



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US ACGIH Threshold Limit Values: A4 carcinogen

Carbon black (1333-86-4)

Group A4 Not classifiable as a human carcinogen.

Symptoms and target organs**Target Organs (NIOSH)**

Carbon black (1333-86-4)

Eyes

Carbon black (1333-86-4)

Respiratory system

12. Ecological Information**Ecotoxicity**

None known.

Aquatic toxicity

No information available.

Persistence and degradability

Not available.

13. Disposal Considerations**Disposal instructions**

Dispose of in compliance with federal, state, and local regulations.

14. Transport Information**IATA**

Not regulated as dangerous goods.

15. Regulatory Information**US federal regulations**

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

US TSCA Section 12(b) Export Notification: Export Notification requirement/De minimis concentration

Isothiazolone DF35 (26172-55-4)

1.0 % One-Time Export Notification only.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No**Section 302 extremely hazardous substance**

No

Section 311 hazardous chemical

No

State regulations**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

Carbon black (1333-86-4)

Listed.

Diethylene glycol (111-46-6)

Listed.

Triethanolamine (102-71-6)

Listed.

16. Other Information**HMIS® ratings**Health: 1
Flammability: 0
Physical hazard: 0
Personal protection: B**NFPA ratings**Health: 0
Flammability: 0
Instability: 0**Issue date**

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Revision

1

Disclaimer

This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

Explanation of abbreviations

| | |
|---------------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| CAS | Chemical Abstracts Service |
| CERCLA | Comprehensive Environmental Response Compensation and Liability Act |
| CFR | Code of Federal Regulations |
| COC | Cleveland Open Cup |
| DOT | Department of Transportation |
| EPCRA | Emergency Planning and Community Right-to-Know Act (aka SARA) |
| IARC | International Agency for Research on Cancer |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| RCRA | Resource Conservation and Recovery Act |
| REC | Recommended |
| REL | Recommended Exposure Limit |
| SARA | Superfund Amendments and Reauthorization Act of 1986 |
| STEL | Short-Term Exposure Limit |
| TCLP | Toxicity Characteristics Leaching Procedure |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| VOC | Volatile Organic Compounds |

Manufacturer information

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